

Claims

[1]           A rolling bearing for a supercharger in which grease is enclosed in an annular space formed between an inner ring and an outer ring that are coaxially disposed, and a non-contact sealing member for forming a gap with said inner ring is disposed in a locking groove disposed in an end portion in an axial direction of said outer ring, wherein

          at least a locking portion on a side of the outer ring of said sealing member is covered with rubber, and a length of an opposed face of an inner-ring side end portion of said sealing member which is opposed to said inner ring across said gap is 0.8 mm or more in a section view which is in parallel to an axis.

[2]           A rolling bearing for a supercharger according to claim 1, wherein a radial gap between said inner-ring side end face of said sealing member and said inner ring is 0.1 mm to 0.3 mm.

[3]           A rolling bearing for a supercharger in which grease is enclosed in an annular space formed between an inner ring and an outer ring that are coaxially disposed, and a non-contact sealing member for forming a gap with said inner ring is disposed in a locking groove disposed in an end portion in an axial direction of said outer ring, wherein

an area of an outer circumferential face of said inner ring which is opposed to an inner-ring side end face of said sealing member is formed to have a tapered shape in which a diameter is more increased as advancing from an axial end portion side to a middle side.

[4] A rolling bearing for a supercharger according to claim 3, wherein an angle formed by said tapered area and a rotation axis of said inner ring is 5 degrees or more.

[5] A rolling bearing for a supercharger according to claim 4, wherein said inner-ring side end face of said sealing member is formed to have a shape parallel to said tapered area.

[6] A rolling bearing for a supercharger according to claim 5, wherein an axial length of said inner-ring side end face of said sealing member is twice or more as long as a distance between said inner-ring side end face and said tapered area.